

Title (en)
LIGHT SOURCE

Title (de)
LICHTQUELLE

Title (fr)
SOURCE DE LUMIÈRE

Publication
EP 3140368 B1 20191113 (EN)

Application
EP 15727868 A 20150505

Priority
• CZ 2014302 A 20140505
• CZ 2015000040 W 20150505

Abstract (en)
[origin: WO2015169270A2] The light source (1) is based on a high-efficiency solid-state laser source (2) of the excitation coherent radiation (3) and a single crystal phosphor (4) which is machined in a form of an optic element for emitted light parameterisation. The single crystal phosphor (4) is produced from a single crystal material on the basis of garnets of the (Ax, Lu1-x)AlbO12:Cec general formula or from a single crystal material on the basis of perovskite structure of the B1-qAlO3:Dq general formula. The efficient light source (1) shall be utilized e.g. in the automotive industry.

IPC 8 full level
C09K 11/77 (2006.01); **F21K 9/64** (2016.01); **F21V 3/00** (2015.01); **F21V 8/00** (2006.01); **F21V 9/08** (2018.01); **F21V 9/30** (2018.01); **F21V 13/12** (2006.01); **F21V 15/01** (2006.01); **H01S 5/00** (2006.01); **H01S 5/022** (2006.01); **H01S 5/40** (2006.01); **F21Y 115/10** (2016.01); **F21Y 115/30** (2016.01)

CPC (source: CN EP KR RU US)
C09K 11/57 (2013.01 - KR RU); **C09K 11/68** (2013.01 - KR RU); **C09K 11/7706** (2013.01 - CN EP KR RU US); **C09K 11/7721** (2013.01 - RU); **C09K 11/7774** (2013.01 - CN EP KR RU US); **C09K 11/7792** (2013.01 - CN EP KR RU US); **F21K 9/61** (2016.08 - KR); **F21K 9/64** (2016.08 - EP KR US); **F21S 15/00** (2013.01 - RU); **F21V 3/00** (2013.01 - US); **F21V 9/08** (2013.01 - US); **F21V 9/30** (2018.02 - EP US); **F21V 9/32** (2018.02 - EP KR US); **F21V 9/38** (2018.02 - EP KR US); **F21V 13/12** (2013.01 - CN); **F21V 13/14** (2013.01 - EP KR US); **F21V 15/01** (2013.01 - KR US); **G02B 6/0008** (2013.01 - EP US); **F21K 9/61** (2016.08 - EP US); **F21Y 2101/00** (2013.01 - CN KR); **F21Y 2115/10** (2016.08 - EP KR US); **F21Y 2115/30** (2016.08 - EP KR US); **H01S 5/0087** (2021.01 - EP US); **H01S 5/02212** (2013.01 - EP US); **H01S 5/0225** (2021.01 - EP); **H01S 5/02251** (2021.01 - EP); **H01S 5/4025** (2013.01 - EP US); **Y02B 20/00** (2013.01 - KR)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2015169270 A2 20151112; **WO 2015169270 A3 20151230**; CA 2951719 A1 20151112; CA 2951719 C 20201013; CN 106471098 A 20170301; CN 106471098 B 20190607; CZ 2014302 A3 20151118; CZ 307024 B6 20171122; EP 3140368 A2 20170315; EP 3140368 B1 20191113; KR 20170016350 A 20170213; RU 2016147403 A 20180605; RU 2016147403 A3 20180605; RU 2686192 C2 20190424; US 10584852 B2 20200310; US 2017241619 A1 20170824

DOCDB simple family (application)
CZ 2015000040 W 20150505; CA 2951719 A 20150505; CN 201580036249 A 20150505; CZ 2014302 A 20140505; EP 15727868 A 20150505; KR 20167033866 A 20150505; RU 2016147403 A 20150505; US 201515318418 A 20150505